

Space Acceleration Measurement System (SAMS) Fact Sheet

Increment: 8

SAMS Operational Support

Pager: 216-549-1069

E-Mail: SAMS-Operations@grc.nasa.gov

SAMS will not have regular on-console shifts. We will continue to monitor our hardware and respond to OCRs, etc. If a situation arises that requires us to be on-console, we will do so.

SAMS is always available 24/7 via pager.

The SAMS E-Mail account is distributed to all Ops Team Members to ensure a quick response.

SAMS Hardware

- Express Rack 1

SAMS Drawer	SAMS EE	SAMS SE	Location in rack
RTS/D1	EE-F02	SE-F02 SE-F03	Drawer 1
RTS/D2	EE-F03	SE-F04 SE-F05	Drawer 2

NOTE: The power indicator lights for the ISIS Drawer positions are non-functioning on ER1.

- Express Rack 2

SAMS EE	SAMS SE	Location in rack
EE-F05	none	Embedded

- Express Rack 3

SAMS EE	SAMS SE	Location in rack
EE-F04	none	Embedded

- Express Rack 4

SAMS ICU	Location in rack
SAMS ICU/D1	Drawer 2

NOTE: The power indicator light for the ISIS Drawer 2 position is non-functioning on ER4.

- MSG Rack

SAMS EE	SAMS SE	Location in rack
EE-F06	SE-F08	Work Volume

NOTE: The MSG configuration puts SAMS EE-F06 on LAN 2

SAMS Data

Telemetry Science Data

All SAMS EE's and ICU need to communicate with each other. This rack to rack communication is mapped in the CAM tables.

Each EE boots off of the ICU.

Each EE sends the acceleration data and the housekeeping data to the ICU.

The ICU downlinks all SAMS data (APID 890, 898) to the ground.

Health and Status Data

Each EE sends health and status data to the RIC associated with the Express Rack it resides in.
The ICU sends health and status data to the RIC associated with the Express Rack it resides in.

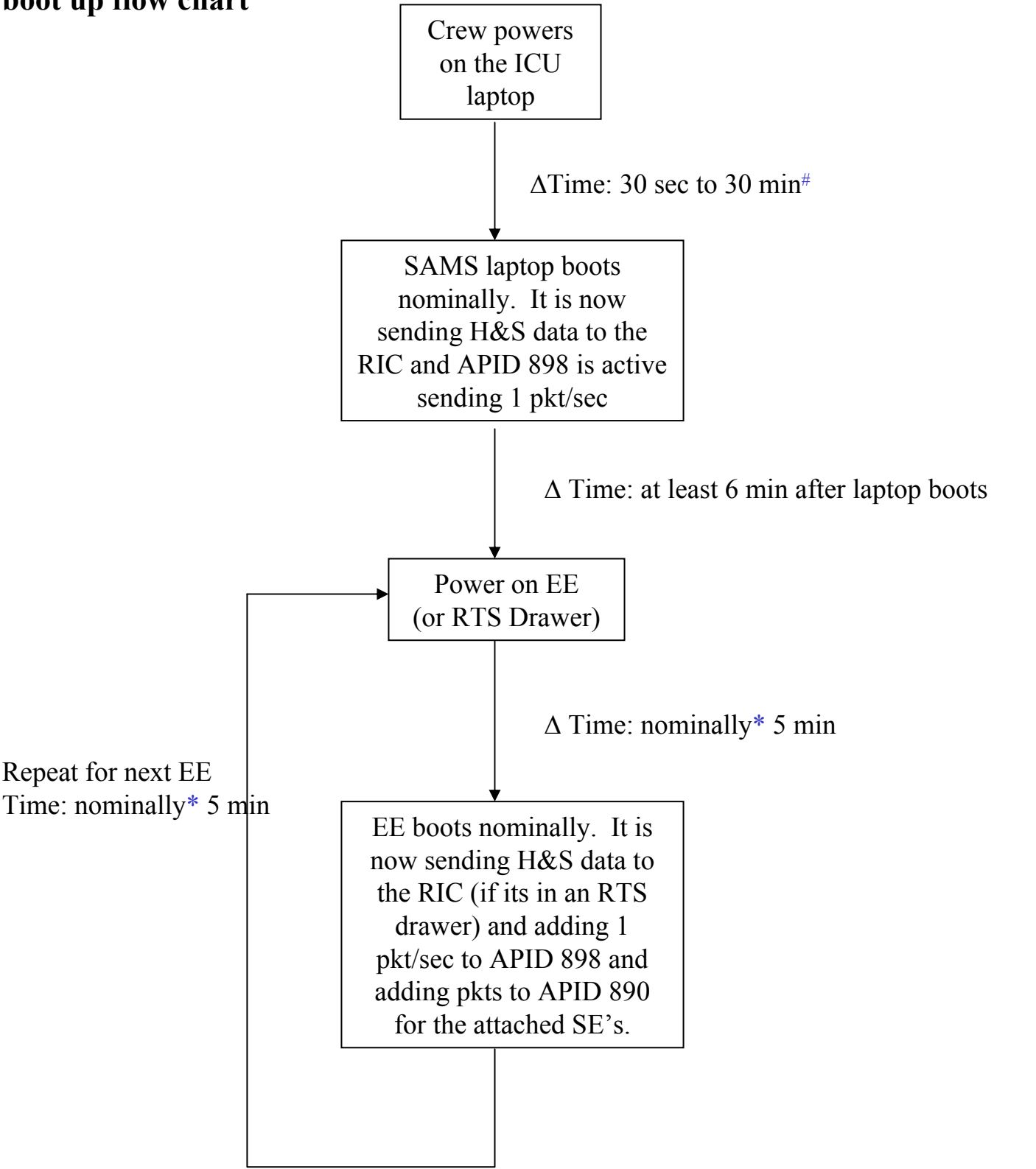
Commanding

All SAMS Commands are sent to the ICU.

SCIENCE Data Support

The PIMS Team (pimsops@grc.nasa.gov) collects, processes, and displays the SAMS and MAMS acceleration data.
The SAMS data can be found at <http://pims.grc.nasa.gov/>

SAMS power up and
boot up flow chart



possible file system check
*slow boot issues cause a slower boot time